

READY RECKONER FOR LOW ALLOY HIGH STRENGTH STEEL CONSUMABLES

	LOW TEMPERATURE APPLICATION					
BRAND	TENALLOY 55	TENALLOY 60	TENALLOY 60-D3	TENALLOY 70 A	TENALLOY 70 B / 70 BL	TENALLOY 70 C
BASE MATERIAL	DIN 17280 10Ni1	BH39/47/ W27/W30 steel, ALDUR 45/60, SA-841/841M	A 209 T1	SA-203/203M Gr.A/B	SA-203/203M Gr.B/D/E, 3.5% Ni steel	~ 1% Ni Steels, A333 & A334 Grade 6, A350 Grades LF2 & LF5, A352 Grade LCB
EQ. CWC	AUTOMIG 80S-Ni1, TIGFIL 80S-Ni1, AUTOMIG FC 81T-1Ni1	AUTOMIG 80S-Ni1, TIGFIL 80S-Ni1	-	TIGFIL 80S-Ni2	TIGFIL 80S-Ni2	
APPLICATION	Storage tanks, pipes, pressure vessels, boilers, bridges & heavy structures	Storage tanks, pipes, pressure vessels, boilers, bridges & heavy structures	Penstocks, pressure vessels, Earthmoving Equipments	Welding of 2.5% Ni steels in refineries, Power plants, heat exchangers.	Welding of 3.5% Ni steels in refineries, Power plants, heat exchangers.	Pressure vessels and heat exchangers in refineries and power plants
	HIGH TEMPERATURE APPLICATION					
BRAND	TENALLOY 125	MOLYTEN / MOLYTEN S PLUS	CROMOTEN	CROMOTEN PHT SPECIAL	CROMOTEN S PLUS	
BASE MATERIAL	Low alloy cast steels like GS 17 CrMoV 5 SA 204/204M Gr.A, SA 217/217M Gr.WCI, SA- 182/182M Gr.F1	P11, P12 grades of SA- 335/335M,	ASTM A182-F2, F11, F12, 13 CrMo 44, 15 CrMo 5	ASTM A182-F2, F11, F12, 13 CrMo 44, 15 CrMo 5	ASTM A182-F2, F11, F12, 13 CrMo 44, 15 CrMo 5	
EQ. CWC						
APPLICATION	Valve casting & steam turbines, pressure vessel in power generation & petrochemical.	Welding of pressure vessel, boilers & pipelines.	Refineries, power plants, chemical plants, pressure vessels, boilers.	Chemical & petro chemical industries where resistant to H ₂ attack & corrosion.	Creep resistant steel used in boilers, power plants, oil refineries, chemical plants.	
BRAND	CROMOTEN C / C S PLUS	CROMOTEN D / D (SPL)	CROMOTEN Ti	CROMOTEN V	CROMOTEN C Ti	
BASE MATERIAL	T22 grade of SA-213/213M, 22 grade of SA-387/387M F22 grade of SA-182/182M, GS 12CrMo 9 10	F5 grade of SA-336/336M & SA- 387M	GS 13CrMo 44, 15CrMo V42, grade CP2, CP11 & CP12	ASTM grade T2, T11 & T12, IS 07Cr90Mo 55	F22 grade of SA-182/182M, GS 12CrMo 9 10	
EQ. CWC						
APPLICATION	Steels used in the Refineries, Power & chemical plants, pressure vessel & boilers.	Steels used in the Refineries, Power & chemical plants, pressure vessel & boilers.	Low alloy steel boilers & piping operating at service temp. Upto 500° in oil refinery & chemical plant.	Low alloy steel boilers & piping operating at service temp. Upto 500° in oil refinery & chemical plant.	In refineries, power plants, pressure vessels, chemical plants, boilers.	
BRAND	CROMOTEN C (PHT Batch)	CROMOTEN 9	CROMOTEN 9M	CROMOTEN 9M-15	CROMOTEN 9M (SPL)	
BASE MATERIAL	ASTM A182-F2, F11, F12, 13 CrMo 44	ASTM A 217 C 12, X 12 CrMo 91	ASTM A 387-Gr.91, X 10 CrMoVNb 91	T91 Gr. Of SA-199/199M & SA- 213/213M	ASTM A217 Grade C12A, BS1503 Grade 91	
EQ. CWC						
APPLICATION	Low alloy steel boilers & piping	For 9% Cr plates, pipes, & tubes.	For 9% Cr plates, pipes, & tubes.	creep resistant steels used for boilers, power plants, oil refineries,		

	operating upto 600°C in refinery, thermal power plant.	For corrosion & heat resistance applications.	For corrosion & heat resistance applications.	chemical plants, etc.		
HIGH STRENGTH APPLICATION						
BRAND	TENALLOY 65 / 70	TENALLOY 65 SPL	TENALLOY 70 D1	TENALLOY 75	TENALLOY 75 D2	TENALLOY 75 G
BASE MATERIAL	SA-662/662M Gr.A/B/C	HY-80, HY-90 & ASTM A514, A508, A533	AISI 4130, ASTM A487 Gr.2A/B/C (cast)	USS-T1 steel, N-A-XTRA 70, BH65 steel	Fully killed fine grained high tensile steel	DMR 249B
EQ. CWC	AUTOMIG 90S-G , TIGFIL 90S-G, AUTOMIG FC 90T5-K2					
APPLICATION	Welding of high tensile steels, Pressure vessels, boilers, bridges & heavy structures	Earthmoving equipments, powerhouse construction, oil refineries, Penstocks, Submarine	Joining low alloy high tensile steels, Penstocks, Earthmoving equipments	Fabrication of Penstocks, earth moving equipments & heavy structures		Welding of grain refined steels and nickel steels. Also suitable for welding heavy and highly restrained joints. distillers in coke oven batteries, storage tanks for liquefied gases like ammonia & petrochemical industries.
BRAND	TENALLOY 80	TENALLOY 80 HH SPL	TENALLOY 4130	NIMOTEN / NIMOTEN PLUS	NIMOTEN PLUS 535 / 535 A / 535 B	
BASE MATERIAL	USS T-1 steel, C & D Gr. Of SA-225/225M	AISI/SAE 4130 & 8630		N-A-XTRA 60 steels	W360, W302, W303, AISI H11, H13, Premium H13, DB 6 die block	
EQ. CWC						
APPLICATION	Penstock, earthmoving equipments & heavy steel fabrications		Rock crushing machinery & automotive parts, Structural parts of aircraft	Penstocks, Pressure vessels, Boilers, Pipelines, machinery parts.	Forging dies for filling of all types of die impressions, large hot working dies.. Machinery, earth moving equipment, armour steels, etc. Repair of case hardening steel parts. Cracks in Ni-Cr hot working dies.	
WEATHERING STEEL						
BRAND	ULTRACORTEN III					
BASE MATERIAL	Weathering steel like CORTEN-A & CORTEN-B					
EQ. CWC	Automig FC 180R					
APPLICATION	Weathering steel used in the chemical, petrochemical &					

	railway where high corrosion resistance is required.				